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Enter terms
Search

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- [Relevancy \(descending\)](#)
- [Title \(descending\)](#)
- [Open Date \(descending\)](#)
- [Close Date \(descending\)](#)
- [Release Date \(descending\)](#)

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Displaying 1 - 10 of 29 results

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[1. CBD152-001: Adjustable Focus Lenses for Respiratory Protection](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Current respiratory protection systems require optical inserts for wearers requiring optical correction. Use of optical correction inserts limit optical compatibility with night vision goggles and weapon systems due to the added eye relief. One reason individual high index lenses are not used is because they cost seven times more than vision correction inserts. Additionally, polycarbonate lenses h ...

SBIR Office for Chemical and Biological Defense Department of Defense

[2. CBD12-102: Advanced Purification Technology for the Manufacture of Vaccines, Biologic Drugs, and Enzymes](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop novel, non-synthetic-resin-based protein purification technologies that enables the low-cost production of kilogram quantities of proteins for chemical and biological defense applications. DESCRIPTION: Recent investments by the DoD have been made in areas to increase the agility of the government to respond to a future pandemic or chemical/biological threat in development ...

SBIR Office for Chemical and Biological Defense

[3. CBD13-103: Advanced Real-Time Surface Contamination Sensor](#)

Release Date: 11-16-2012 Open Date: 12-17-2012 Due Date: 01-16-2013 Close Date: 01-16-2013

OBJECTIVE: Demonstrate and deliver a novel, noncontacting, broad area rapid scanning surface contamination sensor to provide threat warning in real time. DESCRIPTION: The LWIR (long wave infrared) portion of the spectrum possesses absorption, backscatter, and radiation features that can be used with some limited success to detect and identify chemical agents on surfaces. Passive hyperspectra ...

SBIR Office for Chemical and Biological Defense

[4. CBD13-104: AOTF-based Spectral Imaging for Enhanced Stand-off Chemical Detection](#)

Release Date: 11-16-2012 Open Date: 12-17-2012 Due Date: 01-16-2013 Close Date: 01-16-2013

OBJECTIVE: Build an AOTF Imaging System for Enhanced Standoff Chemical Detection in the Long-wave Infrared Region. DESCRIPTION: Acousto-optics can be defined as the study of the interactions between sound waves and light waves. In particular it is the study of diffraction of light by ultrasound or sound in general. Acousto-optic effects are usually based on the change of the refractive index of ...

SBIR Office for Chemical and Biological Defense

5. [CBD12-106: Carbon Dioxide and Water Removal Technology for Closed-Circuit Self-Contained Breathing Apparatus](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: To develop high-capacity, low-pressure carbon dioxide removal technology for the development of lower maintenance and lighter weight closed-circuit self-contained breathing apparatus with reduced logistical burden. DESCRIPTION: A Self-Contained Breathing Apparatus (SCBA) is a type of respiratory protection device that provides breathing gas from a source independent of the surround ...

SBIR Office for Chemical and Biological Defense

6. [CBD13-109: Closures with Hermetic Sealing for Chem Bio Protective Garments](#)

Release Date: 11-16-2012 Open Date: 12-17-2012 Due Date: 01-16-2013 Close Date: 01-16-2013

OBJECTIVE: Mechanical closures of the hook and loop type used in Army uniforms are the critical sources of leaks in protective clothing/equipment, limiting the protective capability of the ensemble. To address this problem, new closure systems need to be developed to provide both the macroscopic adhesion strength obtainable from the hook and loop closures while also allowing for hermetic sealing a ...

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7. [CBD12-107: Continuous Ionization System for Electrostatic Collection of Bioaerosols in Building Protection Applications](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop a system capable of continuous ionization of airborne bioaerosols in the 0.5-5 m size range that does not generate ozone. The system should be designed for use in electrostatic removal of bioaerosols in HVAC environments at reduced operational costs compared to HEPA filtration. DESCRIPTION: Continually operating, or "always on," removal of airborne particulates provides not on ...

SBIR Office for Chemical and Biological Defense

8. [CBD14-102: Deployable graphene-based chemical/biological sensors](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Design and develop a deployable radio frequency (RF) based broadband impedance chemical/biological detection system suitable for field-deployable networks, UAV deployment applications, and stand-alone chemical/biological point detection. DESCRIPTION: Chemical-warfare (CW) agents, Biological Warfare (BW) agents, explosive materials, and toxic industrial chemicals/materials (TIC/TIM) ...

SBIR Department of Defense Office for Chemical and Biological Defense

9. [CBD12-103: Design Automation Software for DNA-Based Architectures](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop and demonstrate a DNA design automation software package that allows for the specification of large and complex DNA-based architectures. Develop methods to define and manipulate charge and hydrophilicity at the nanoscale. DESCRIPTION: The folding of single- and double-stranded DNA is a chemically well-understood and controllable process. DNA is generally associated with th ...

SBIR Office for Chemical and Biological Defense

10. [CBD12-104: Detection of Liquid Contaminants on Surfaces Using Hyperspectral Imaging](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop a hyperspectral imaging standoff sensor for detecting liquid contaminants on surfaces using passive infrared spectroscopy based on cold-sky reflectance. DESCRIPTION: Surface contamination by CB agents presents a serious threat both to the civilian and military sectors and an adequate defense against these weapons will require rapid detection and identification of both known ...

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- [1](#)
- [2](#)
- [3](#)
- [Next](#)
- [Last](#)

```
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```